

DEVICES HAVING PATTERNED REGIONS OF POLYCRYSTALLINE
ORGANIC SEMICONDUCTORS, AND METHODS OF MAKING THE SAME

Abstract of The Invention

5 Semiconductor apparatus comprising a substrate having a substrate surface; a first
dielectric layer comprising molecules of a first compound, the molecules of the first compound
having first ends and second ends, the first ends being covalently bonded to a first region of the
substrate surface, the second ends having aromatic regions; and a polycrystalline semiconductor
layer comprising organic semiconductor molecules with aromatic portions, the polycrystalline
10 semiconductor layer being on the first region of the substrate. Integrated circuits comprising
apparatus, and methods for making apparatus and integrated circuits.